

FIG 1

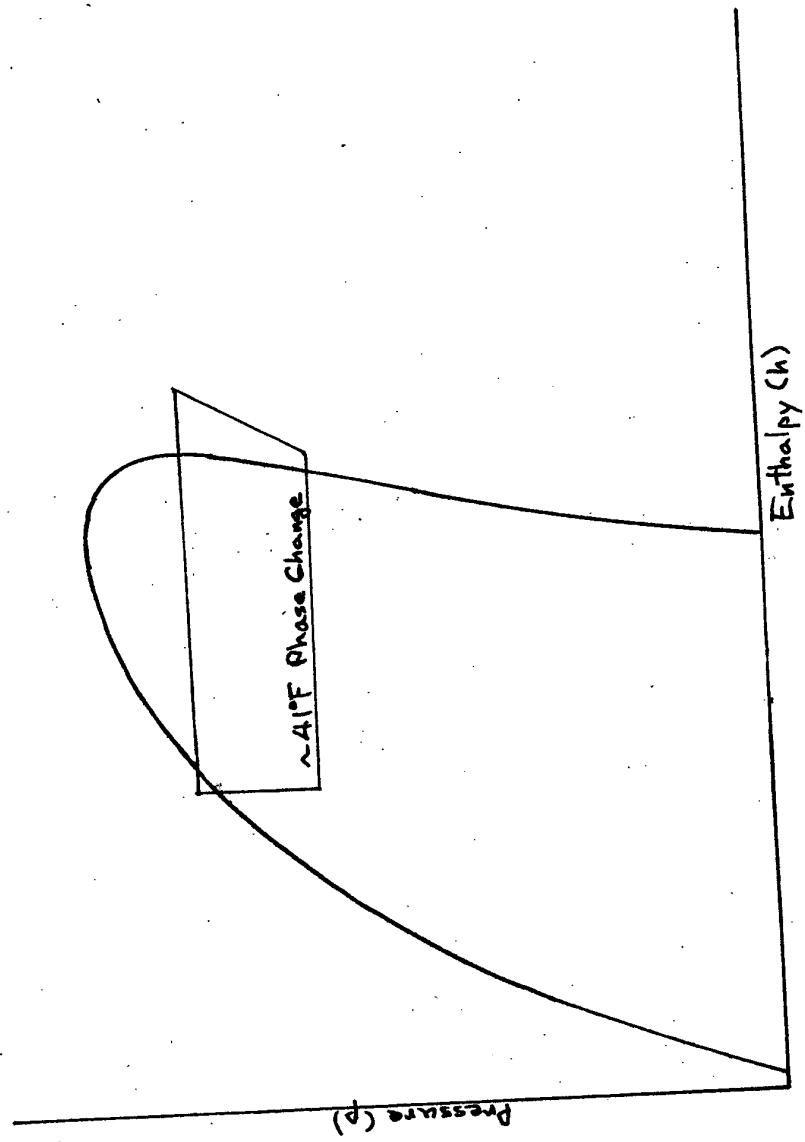


FIG 1a

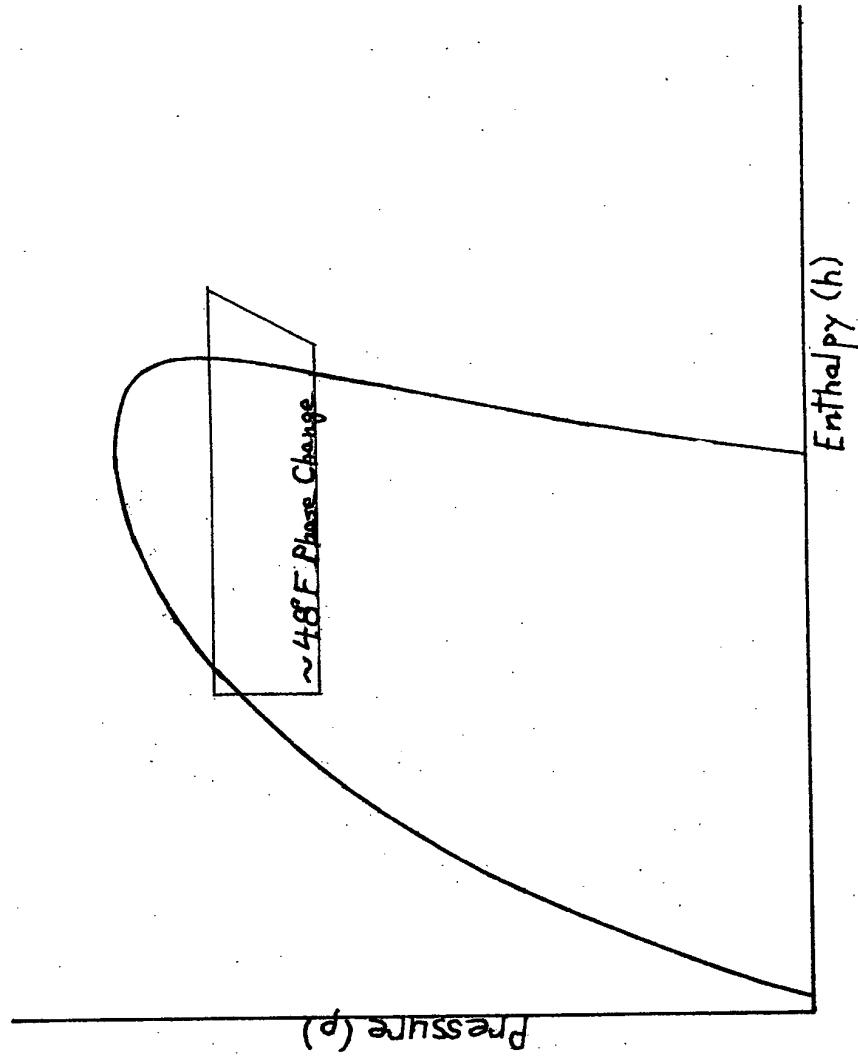


FIG 1b

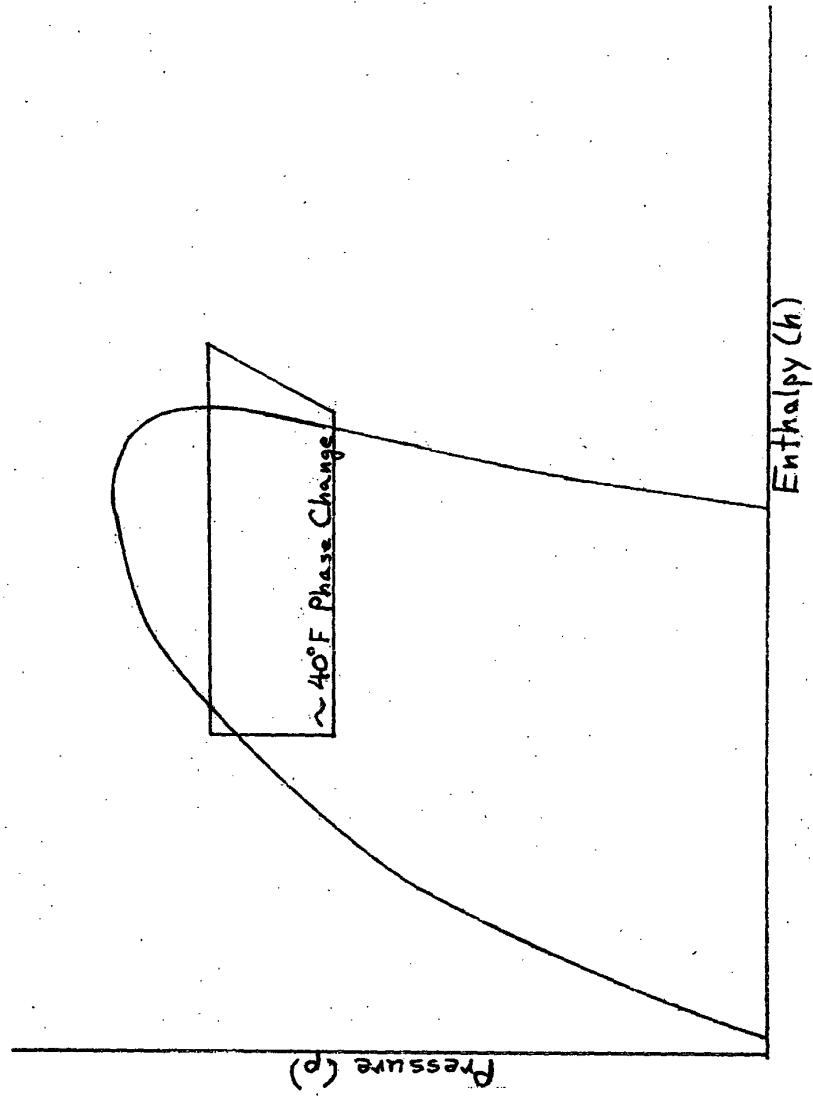


FIG 1c

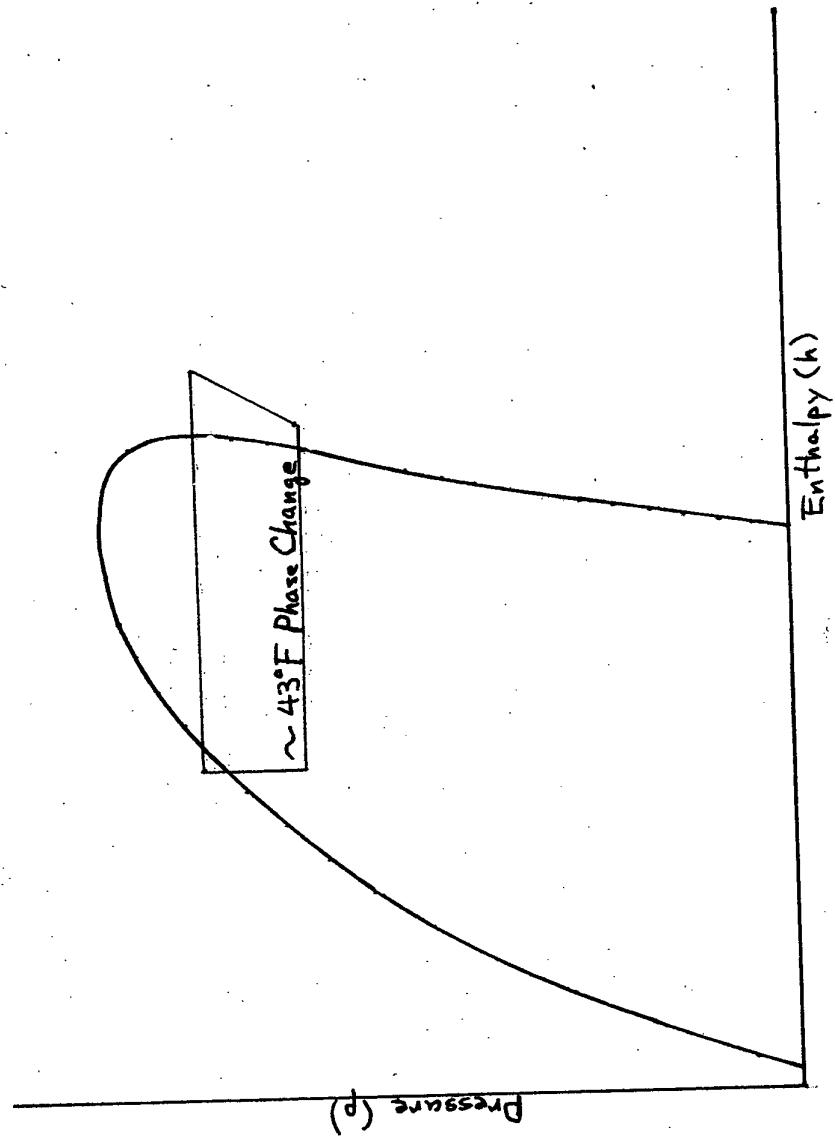
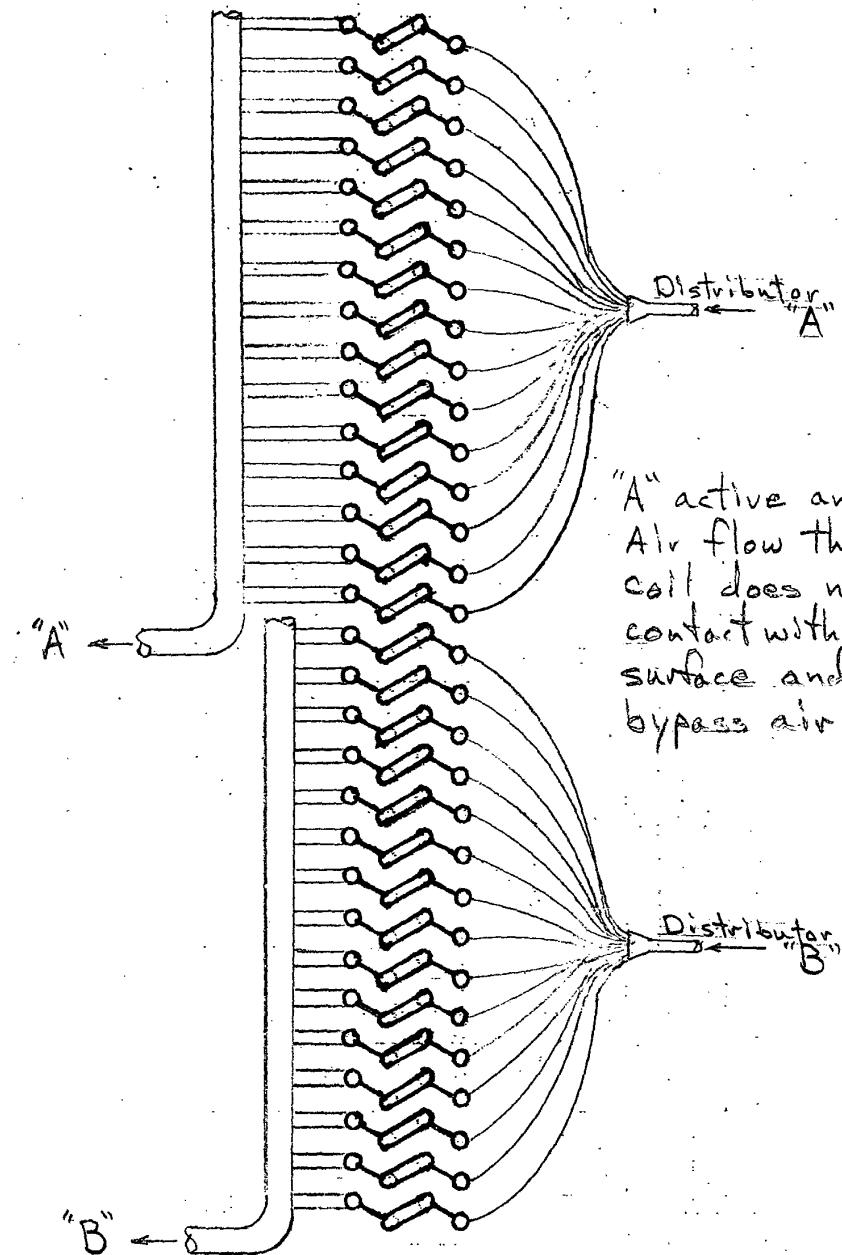
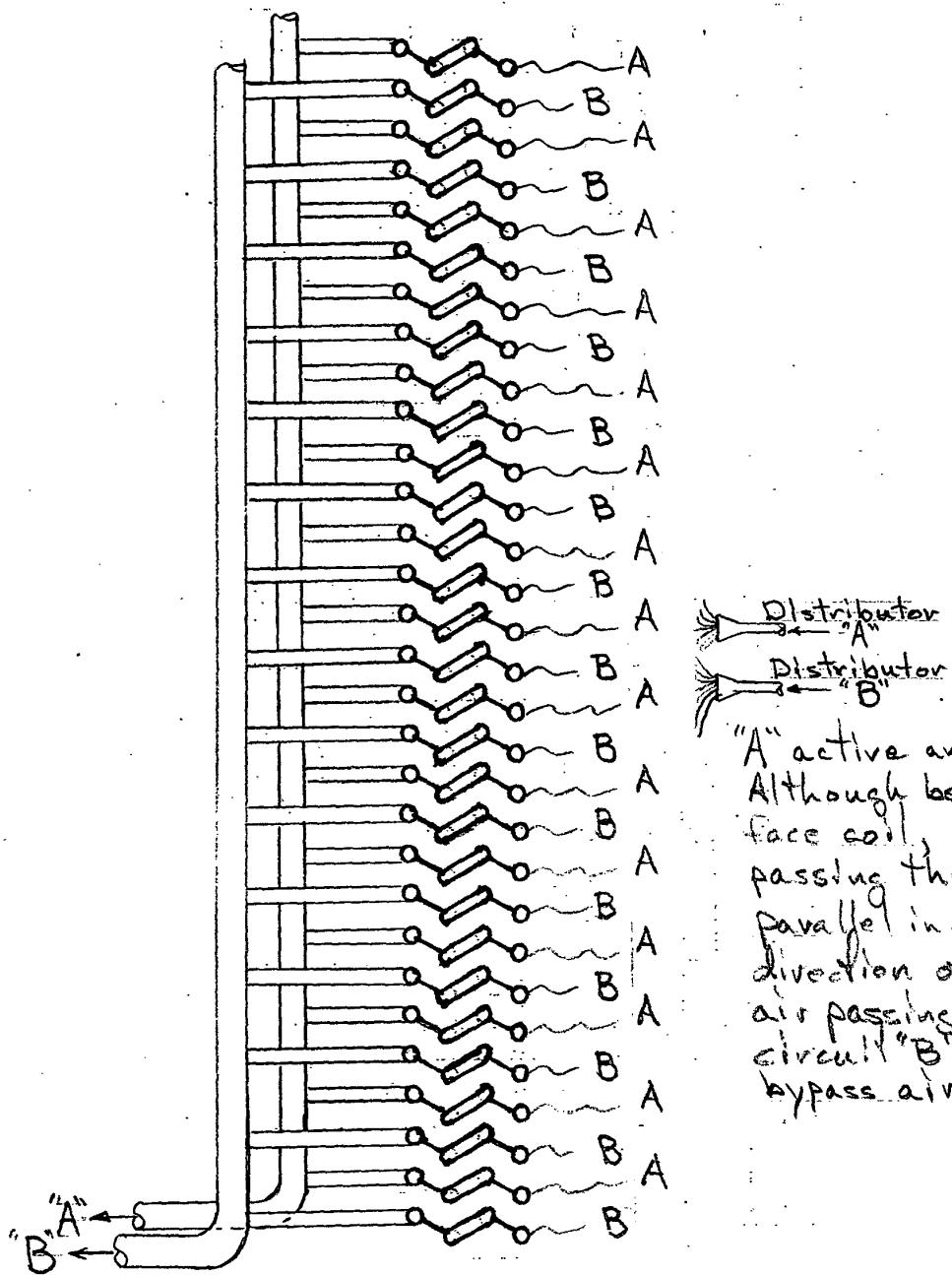


FIG 1d



"A" active and "B" inactive;
Air flow thru "B" side of
coil does not come into
contact with any active
surface and is essentially
bypass air

FIG. 2



"A" active and "B" inactive
 Although better than a split face coil, because air is passing through the coil parallel in direction to the direction of refrigerant, the air passing across refrigerant circuit "B" is still essentially bypass air

FIG. 2 a

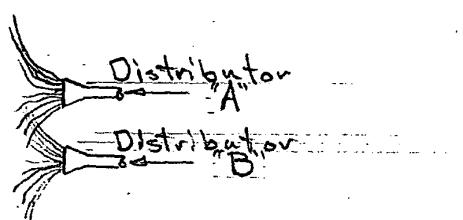
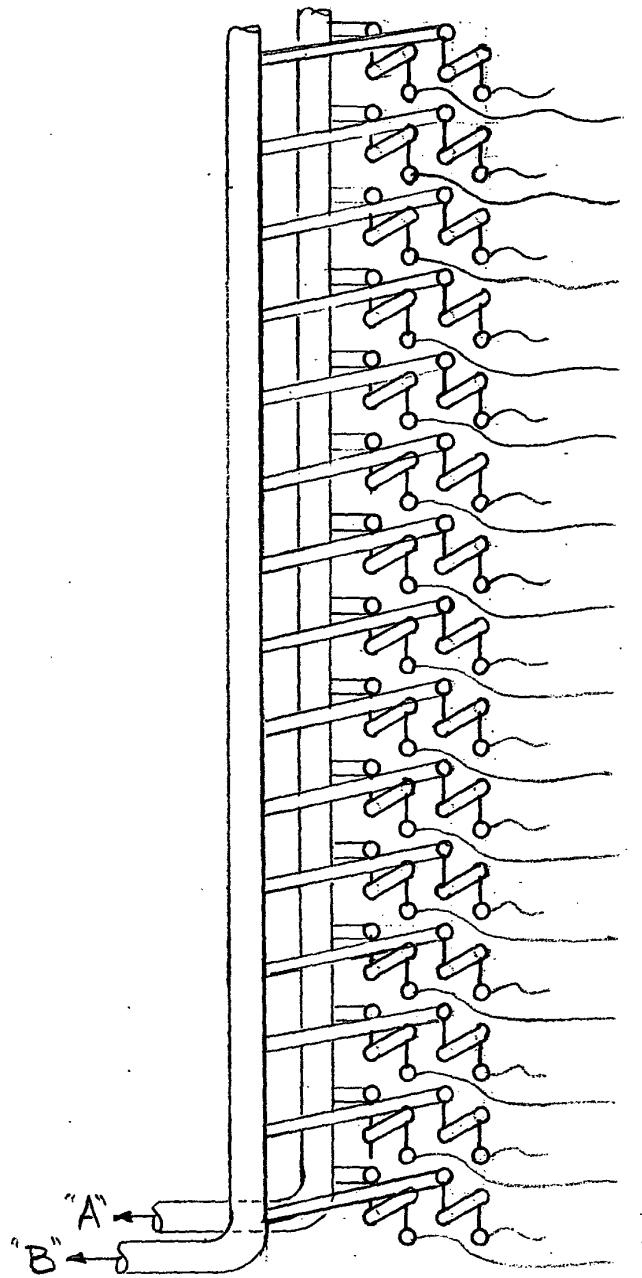


FIG. 26

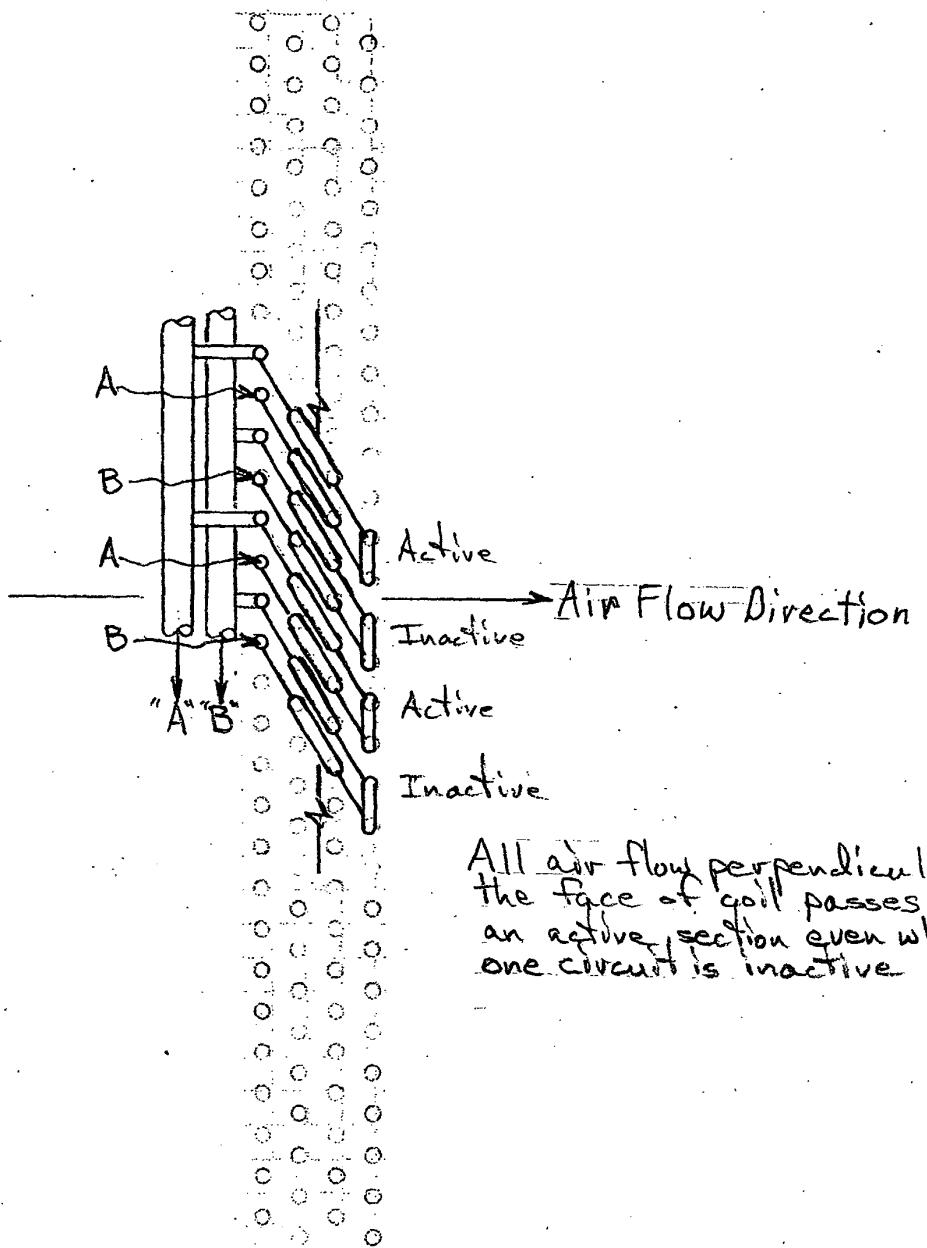
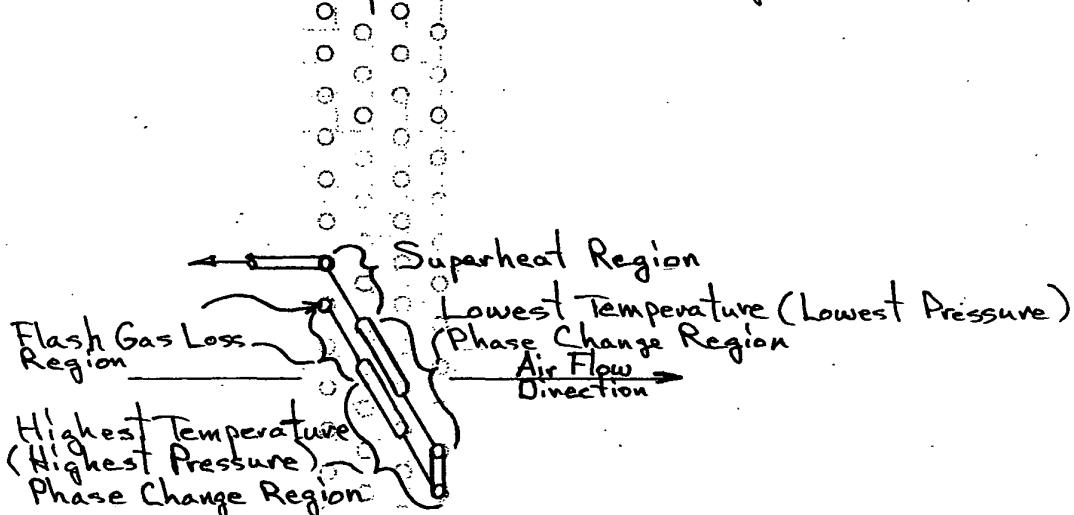


FIG 3

Single Circuit Design For Single Component or Azeotropic Mixture Refrigerants



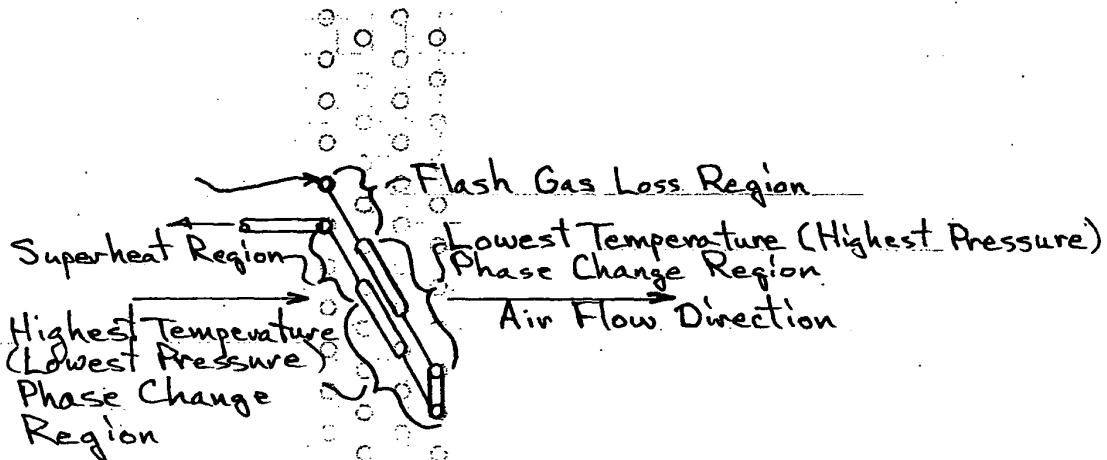
Warmest Regions are the Flash Gas Loss and Superheat Regions

Cold Region is the highest pressure phase change region

Coldest Region is the lowest pressure phase change region

FIG. 3a

Single Circuit Design For Non-Azeotropic Refrigerant Mixtures Such as R-407C That Have A High Glide Differential

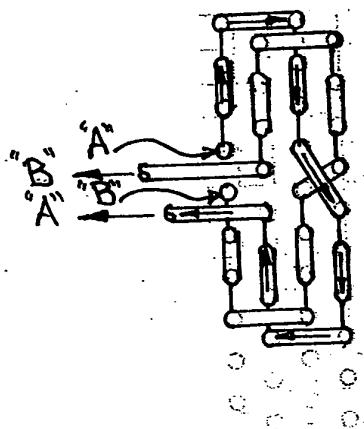


Warmest Regions are the Flash Gas Loss and Superheat Regions.

Cold Region is the Region of the Evaporator closest to the compressor where Phase Change is occurring (Generally the lowest pressure)

Coldest Region of the Evaporator is Phase Change Region farthest from the compressor (Generally the highest pressure)

FIG. 3b



"A" Circuit Active Only

Air Flow Then Coil Hits
Active Circuit Across Face Of Coil

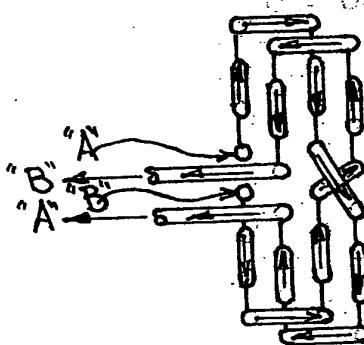


FIG. 4a

"A" & "B" Both Active

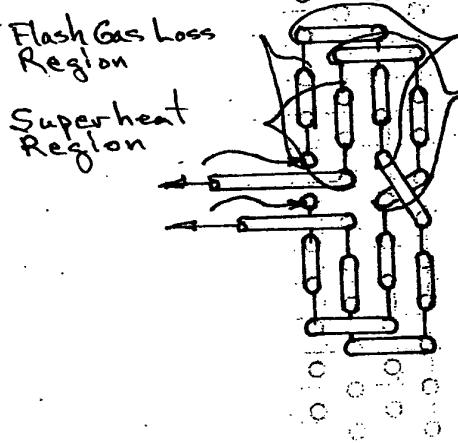
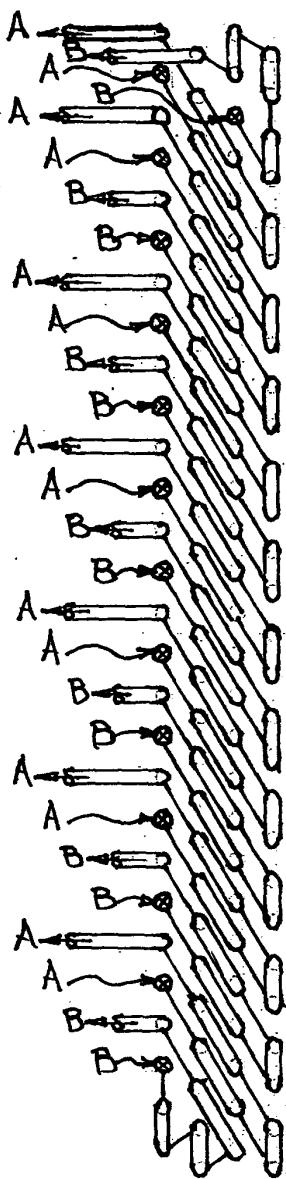


FIG. 4b

Highest temperature phase
change region
Coldest temperature phase
change region

FIG. 4c

FIG. 4



A active & B inactive;
 Because of diagonal flow
 of refrigerant thru evaporator,
 air entering perpendicular
 to the face of the coil will
 hit active circuit across the
 entire face of coil, resulting
 in No bypass air.

FIG. 5

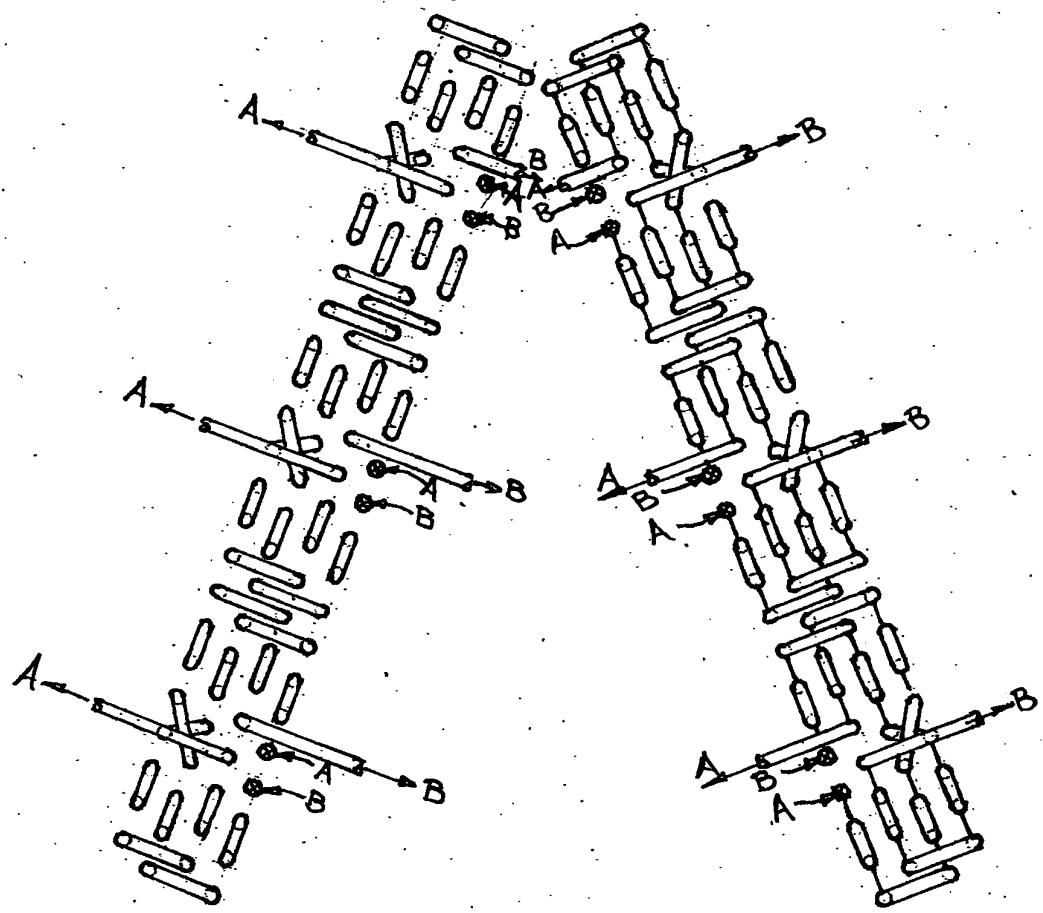


FIG. 6

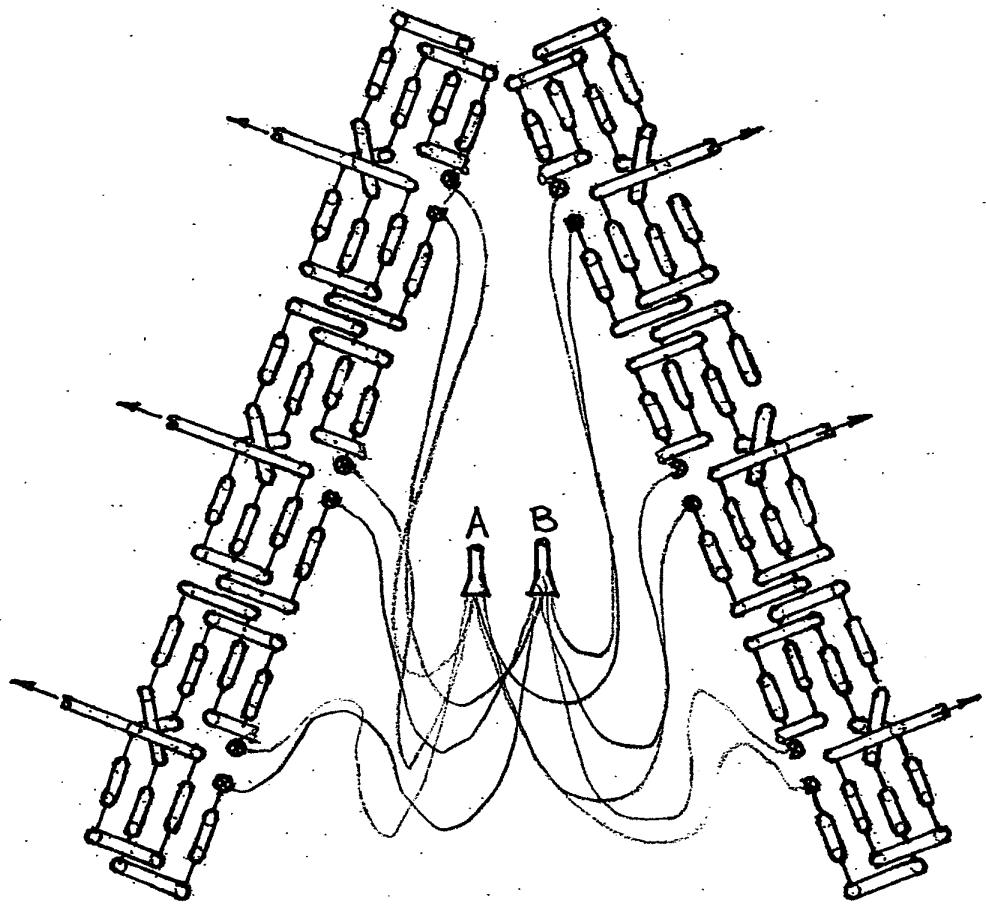


FIG. 6a

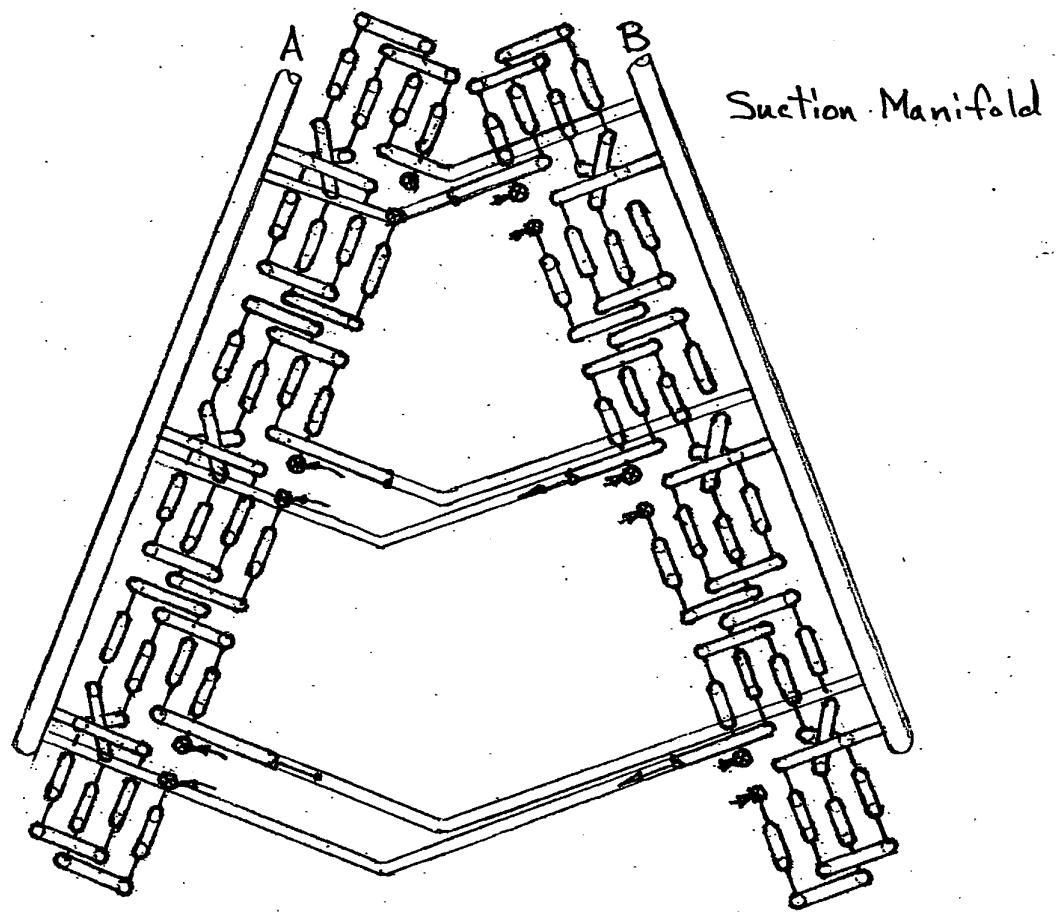


FIG. 6b

Left Side of A Coil

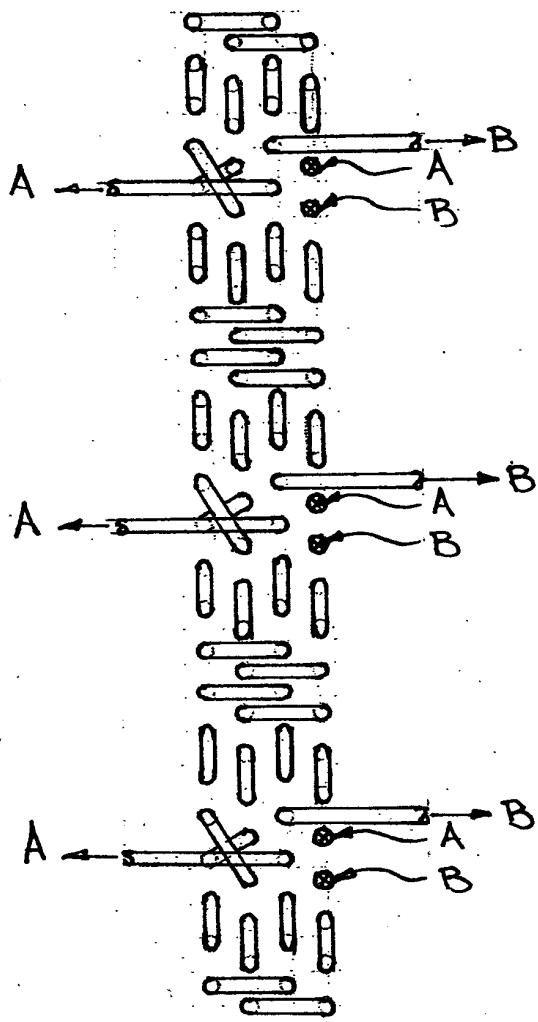


FIG. 6c

Right Side of A Coil

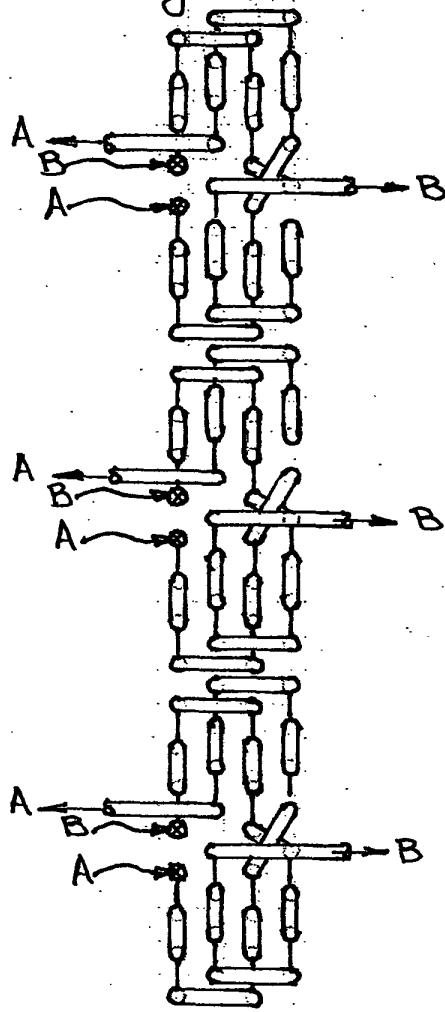


FIG. 6d